

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol (~~PLMN, ISDN, GSM~~) and a network using a packet-oriented protocol (~~IP, ATM~~), comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node (40);

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node (40); and

forwarding payload data between the different networks using a mapping result.

2. (Original) The method of claim 1, wherein
said circuit-switched service parameters define a circuit-switched transmission of data and a circuit-switched signalling and

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling.

3. (Original) The method of claim 1, wherein
said circuit-switched service parameters define a packet-switched transmission of data and a circuit-switched signalling and

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling.

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4. (Currently Amended) The method of claim 2, wherein circuit-switched service parameters defining said circuit-switched signalling define multi-level service information (~~MLPP, eMLPP~~) or and/or bearer capability information (~~GSM, ISUP~~).

5. (Currently Amended) The method of claim 3, wherein circuit-switched service parameters defining said circuit-switched signalling define multi-level service information (~~MLPP, eMLPP~~) or and/or bearer capability information (~~GSM, ISUP~~).

6. (Currently Amended) The method of claim 4, wherein said multi-level service information (~~MLPP, eMLPP~~) comprises:
precedence information to assign a priority to a call or and/or
pre-emption information for a seizure of resources by a higher level precedence call in the absence of idle resources.

7. (Currently Amended) The method of claim 5, wherein said multi-level service information (~~MLPP, eMLPP~~) comprises:
precedence information to assign a priority to a call or and/or
pre-emption information for a seizure of resources by a higher level precedence call in the absence of idle resources.

8. (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol (~~PLMN, ISDN, GSM~~) and a network using a packet-oriented protocol (~~IP, ATM~~), comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node (~~10~~);

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mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node (40); and

forwarding payload data between the different networks using a mapping result; wherein

said circuit-switched service parameters define a circuit-switched transmission of data and a circuit-switched signalling,

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling, and

said circuit-switched service parameters are mapped to said packet-switched service parameters for service differentiation in the network using the packet-oriented protocol through bit settings in a service differentiation field (DS) of data packets.

9. (Original) The method of claim 8, wherein

said service differentiation field (DS) is a Traffic Class Octet according to IPv6 or a Type of Service Field according to IPv4.

10. (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol (~~PLMN, ISDN, GSM~~) and a network using a packet-oriented protocol (~~IP, ATM~~), comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node (40);

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa said interworking node (40); and

forwarding payload data between the different networks using a mapping result; wherein

said circuit-switched service parameters define a packet-switched transmission of data and a circuit-switched signalling,

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling, and

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said circuit-switched service parameters are mapped to said packet-switched service parameters for service differentiation in the network using the packet-oriented protocol through bit settings in a service differentiation field (DS) of data packets.

11. (Original) The method of claim 10, wherein
said service differentiation field (DS) is a Traffic Class Octet according to IPv6 or a Type of Service Field according to IPv4.

12. (Currently Amended) The method of claim 11, wherein
circuit-switched service parameters defining said circuit-switched signalling define multi-level service information (~~MLPP, eMLPP~~) or and/or bearer capability information (~~GSM, ISUP~~).

13. (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol (~~PLMN, ISDN, GSM~~) and a network using a packet-oriented protocol (~~IP, ATM~~), comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node (40);

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node (40);

and

forwarding payload data between the different networks using a mapping result;
wherein

said circuit-switched service parameters define a circuit-switched transmission of data and a circuit-switched signalling,

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said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling, and

said circuit-switched service parameters are mapped to said packet-switched service parameters for service differentiation in the network using the packet-oriented protocol through resource reservation (RSVP).

14. (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol (~~PLMN, ISDN, GSM~~) and a network using a packet-oriented protocol (~~IP, ATM~~), comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node (40);

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node (40); and

forwarding payload data between the different networks using a mapping result; wherein

said circuit-switched service parameters define a packet-switched transmission of data and a circuit-switched signalling,

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling, and

said circuit-switched service parameters are mapped to said packet-switched service parameters for service differentiation in the network using the packet-oriented protocol through resource reservation (RSVP).

15. (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented

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protocol (~~PLMN, ISDN, GSM~~) and a network using a packet-oriented protocol (~~IP, ATM~~), comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node (10);

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node (10); and

forwarding payload data between the different networks using a mapping result; wherein

said circuit-switched service parameters define a packet-switched transmission of data and a circuit-switched signalling,

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling, and

said circuit-switched service parameters are mapped to said packet-switched service parameters for service differentiation in the network using the packet-oriented protocol through protocol label switching (~~MPLS~~).

16. (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol (~~PLMN, ISDN, GSM~~) and a network using a packet-oriented protocol (~~IP, ATM~~), comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node (10);

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

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mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node (40); and

forwarding payload data between the different networks using a mapping result; wherein

said circuit-switched service parameters define a circuit-switched transmission of data and a circuit-switched signalling,

said packet-switched service parameters define a packet-switched transmission of data and a packet-switched signalling, and

said circuit-switched service parameters are mapped to said packet-switched service parameters for service differentiation in the network using the packet-oriented protocol through protocol label switching (MPLS).

17. (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol (~~PLMN, ISDN, GSM~~) and a network using a packet-oriented protocol (~~IP, ATM~~), comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node (40);

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa said interworking node (40); and

forwarding payload data between the different networks using a mapping result, wherein

the mapping of said circuit-switched service parameters into corresponding packet-switched service parameters in said interworking node (40) is carried out using at least one mapping table.

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18. (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol (~~PLMN, ISDN, GSM~~) and a network using a packet-oriented protocol (~~IP, ATM~~), comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node (40);

checking the allowability of the service parameters;

if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node (40); and

forwarding payload data between the different networks using a mapping result, wherein

a mapping of said circuit-switched service parameters into corresponding packet-switched service parameters in said interworking node (40) is modifiable during an ongoing payload data forwarding.

19. (Currently Amended) The method of claim 18, wherein

said mapping of circuit-switched service parameters into corresponding packet-switched service parameters in said interworking node (40) is carried out using at least one mapping table.

20. (Currently Amended) A service parameter interworking method adapted to achieve a service parameter exchange between a network using a circuit-oriented protocol (~~PLMN, ISDN, GSM~~) and a network using a packet-oriented protocol (~~IP, ATM~~), comprising the steps:

receiving circuit-switched service parameters from the network using the circuit-oriented protocol or packet-switched service parameters from the network using the packet-oriented protocol at an interworking node (40);

checking the allowability of the service parameters;

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if the service parameters are not allowable, negotiating allowable service parameters;

mapping said circuit-switched service parameters into corresponding packet-switched parameters or vice versa in said interworking node (40); and

forwarding payload data between the different networks using a mapping result, further comprising a step of negotiation ~~negociation~~ mapping conditions before said actual mapping starts.

Claims 21-28 (Canceled).